

Message from the President



Urgent, March 10th is the day of our next Indoor Golf Outing. This is our only fund raising event of the year and all of the money goes into the scholarship fund. Due to the efforts of Ed Meehan, Ray Streib and our Younger Members, we have been able to provide some financial help to students from the Morgan State University, the University of Maryland and the Johns Hopkins University. Getting through school isn't cheap and these students are appreciative of all the help we can give. *Please* contact Ed at 410-222-7321 or Ray at 410-647-2727 for more information or, more importantly, to register. You will not only be helping a great cause, you will have a tremendous amount of fun. It is just the kind of break that is needed during the dark days of the winter.

One of the goals of ASCE is to continue to look at ways of reaching out to our middle school students and introducing them to the challenges of engineering. As a sponsor of the PBS series *Building Big*, ASCE committed

to providing materials and support to its members in order to meet this goal. Recently, the Maryland Section received a package from ASCE containing a *Building Big Activity Guide* which is a small book containing descriptions of activities that give kids a physical understanding of basic scientific and engineering terms and to help us develop a program for classroom visits. The package also contained a *Thinking Big, Building Small* video which is a hands-on way for kids to learn the secrets of superstructures, explore the greatest built wonders of the world, discover how designers overcame engineering challenges, and build their own min-structure. Lastly, the package contained a booklet describing way of developing a *Building Big* program. Anyone who would like to review this information or use it for a presentation in a middle school can contact me. As the demands for engineers increase, resources appear to be decreasing. It is so important that we begin to educate our young people of the importance engineering has in their every day lives and how challenging a career it can be. If we feel as strong about our profession as we should, participating in a program such as *Thinking Big, Building Small* should not be difficult.

Our March meeting will again be the Carroll Lecture presented by the Johns Hopkins University. This is always a very interesting and informative meeting. April will be sponsored by the Geotechnical Committee. Jim Wheeler is one of our most enthusiastic chairpersons and looks forward to presenting the

joys of the geotechnical engineering field to all of us. Our May meeting will be awards night. This meeting is dedicated to honoring our peers for their efforts and valuable contributions to the engineering profession. I look forward to this meeting every year. Our June meeting, which is the last meeting before the summer break, will be a repeat of last year. Our crab feast was very successful. We couldn't resist the opportunity to

sit by the harbor with our friends and enjoy the best of what Maryland has to offer.

We are finishing the year strong and I hope to see many of you at the remainder of our meetings.

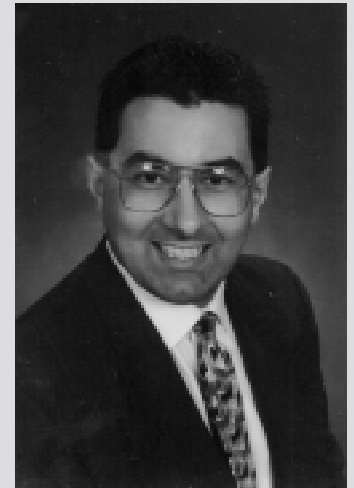
Thanks,

Mike Krupsaw
President

ASCE SECTION ANNOUNCEMENTS

Wallace, Montgomery & Associates is pleased to announce that Antonio Mawry, P.E., has been admitted as a Partner in the firm. Tony is a Maryland Registered Professional Engineer and is responsible for Project Management, Design and Marketing in the firm's Highway Department. He has been with WM&A since 1996, providing highway design and planning services to public agencies throughout the region. His recent work includes design efforts on the US 113 Phase III Dualization for SHA, the MD 542 Loch Raven Boulevard Streetscape for SHA, the MD 347 Quantico Road Streetscape for SHA and the Wilkens Avenue Gateway Project for the City of Baltimore.

Tony is very active in local organizations, serving as Treasurer of ASCE Maryland Section and serving as Director & Past President of ASHE Chesapeake Section. He holds a Bachelor of Science Degree in Civil Engineering from the University of Maryland and a Masters Degree in Business Administration from Loyola College in Baltimore.



(continued on page 5)

AIDING THE TROOPS



When the Europe District (EUD) of the U.S. Army Corps of Engineers was in urgent need of a comprehensive plan for infrastructure improvements at three bases in the Balkans—Camp Able Sentry in Macedonia and Camps Bondsteel and Monteith in Kosovo—it turned to a team of STV planners and engineers.

“Because the circumstances behind the U.S. presence in the former Yugoslavia allowed little or no time to plan the construction of infrastructure at the bases prior to the arrival of the troops, the team had to take what they could find. Two of the bases [Camp Able Sentry and Camp Monteith] already existed, while the third [Camp Bondsteel] required starting from scratch,” explained program manager Gary Anderson, Ph.D., A.I.A., A.I.C.P., Baltimore. In addition to Anderson, the STV team consisted of Donovan Olsen, P.E., P.L.S., Baltimore, David Pollock, P.E., Douglassville, and special consultant Bill Roman, P.E.

The contract required that STV personnel undergo special security training and essentially become military personnel while working on the project. Acquiring all of the special gear and coordinating most of the schedule was STV’s responsibility.

The Army needed a comprehensive plan that would allow coordinated build-out of the bases to meet their mission. The team made recommendations on how the Army should change its approach to new infrastructure development and which existing systems were working sufficiently well to continue operations. As a result of unique conditions at the camps, recommendations were specially tailored to each installation.

“STV had to take into consideration that the Army had already made a sizeable investment in the three camps. It may not have been the way we would have done it, or even the way the Army would have done it [under ideal circumstances], but we couldn’t bring things to a halt because of the ongoing nature of operations in the region,” Anderson noted. In theory, the mission of the bases is supposed to last five years. This complicated efforts because there were more considerations to be taken into account than if the bases had been permanent structures. “We had to come up with appropriate levels in infrastructure that were good enough to carry out the Army’s mission efficiently,” he said.

New wastewater treatment facilities were recommended for the camps. Camp Bondsteel, the largest of the three camps, began life as a wheat field and in three months became a camp housing 5,000 troops in hardened structures. Originally, the Army trucked in water from Camp Monteith. STV recommended installing a 500,000-gallon treatment plant for the camp.

Camp Monteith, located in the city of Gnjilane, was an artillery post that had been heavily damaged in the fighting. A 250,000-gallon wastewater treatment plant was recommended for this camp.

The electrical utilities at Able Sentry were in a state of disrepair and in need of upgrading. Similar to those at Camp Monteith, the existing facilities required complete rewiring due to heavy bomb damage. STV recommended building a new substation at Monteith. At Camp Bondsteel, on the other hand, STV recommended a new substation, retaining an existing generator as a standby.

As a result of responsiveness and comprehensive recommendations made while working within an unusually brief period of performance, the team provided aid to our troops and their well being.

MD ASCE Geotechnical Group Meeting

On Tuesday March 20, 2001. Mr Paul Schmall, Mortrench American Corp., Rockaway, NJ will present “Construction Dewatering: Principals and Practive.” With temporary dewatering playing a major role in most deep excavations, Mr. Schmall will provide background design concepts and describe the selection and design of pre-drainage, open pumping, and presure relief dewatering systems. Dewatering system installation methods, illustrated with project examples from the Baltimore and Washington, DC area, will be included in the discussion along with important “lessons learned” about dewatering system design and operation. In addition to geotechnical engineers, this presentation should be of interest to civil, and structural engineers, geologist and contractors.

Contact Susan Shaffer, Hillis-Carnes Engineering at 410-880-4788 or SShaffer@hcea.com for meeting reservations.

March MD Section ASCE Newsletter

Younger Member News

by Kelly Brennan, Younger Member Co-Chair
<http://www.asce.org/gsd/sections/mdasce/ym.htm>

Hello Younger Members!

We have lots of exciting events planned this month and we hope a lot of you will be able to participate! The events are as follows:

Putt-Putt Golf Tournament

Saturday, March 10th

Come out for a fun evening and help raise money for the scholarship fund! Food, beverages, golf, silent auction and more! Contact Ed Meehan at 410-222-7321 or Ray Strib at 410-647-2727 for more details.

Mock Interview/Resume Review Night

Wednesday, March 21st, 6:00 PM at the Engineering Society of Baltimore

Come help local students review their resumes and polish the interviewing skills. Meet other YM's and enjoy a great dinner! It is also a great way to meet some potential new employees. If you're interested in participating, contact Mandy Cody at acody@jmt-engineering.com.

First Annual Spring Hike

Sunday, May 13th

Get your hiking shoes ready! ASCE YM's are going to do a short hike at Oregon Ridge Park followed by a picnic lunch. Get outside to enjoy the warmer weather and meet some new friends! Wives, husbands and significant other are welcome too! Check the web site for more details!

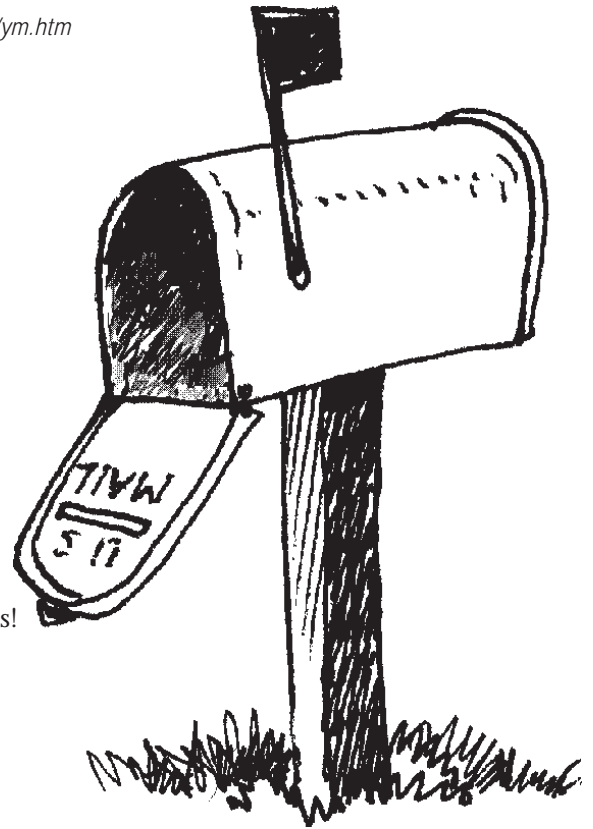
Annual Boy Scout Service Project

Saturday, May 5th

This annual service project involves doing much needed work at a local Boy Scout Camp. More details will be available in the near future. Contact Mandy Cody at acody@jmt-engineering.com for more details.

Volunteer Activities

In recent months, there has been a lot of interest in doing volunteer/community service activities so we are organizing a Younger Member Outreach Committee. National ASCE is encouraging the local ASCE Chapters to become involved in their community and to let others know what civil engineering is all about. This is especially important to ASCE because we will soon be celebrating ASCE's 150th Anniversary and it's a great opportunity to let others know what a great organization we are!



Younger Member Outreach Committee

Contact:
Kelly Brennan, brennank@pbworld.com

We are going to be forming a Younger Member Outreach Committee for all of those interested in doing any sort of volunteer activities. The main focus (at least initially) will be on elementary and high school outreach programs. Kelly Brennan (brennank@pbworld.com) will be the chair of this committee and we are looking for other interested members to volunteer. Volunteers to this committee can simply attend committee sponsored events or they can help see them out and plan them. Also, participating in outreach events is not limited to YM's. We encourage everyone to get involved! The time you wish to devote to the committee is up to you!

The ASCE Engineering News is a monthly publication, except July and August, published by the Maryland Section of the American Society of Civil Engineers and is provided free to Section, life and student members. Comments or questions should be directed to the Editor.

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ASCE SECTION ANNOUNCEMENTS

(continued from page 1)

Wallace, Montgomery & Associates, a civil/structural/environmental consulting engineering firm located in Towson, Maryland, is also pleased to announce that Frank Henry Kaul, P.E. has been promoted to Associate. Frank is a Maryland Registered Professional Engineer and holds a Bachelor of Science Degree in Civil Engineering from the University of Maryland. He has been with the firm since 1995. In addition to assuming managerial tasks within the Structural Department, he will continue to serve as Project Manager and Lead Structural Engineer for bridge inspection and design projects for highway and transit structures throughout the region.

Frank is very active in the ASCE Maryland Section, serving as Newsletter Editor and as ASCE's TRAC committee representative.



Stephen W. Parker, P.E., was recently promoted to vice president of STV Incorporated, an STV Group professional firm.

A senior associate prior to his promotion, Parker has more than 24 years experience in project management and civil engineering. He directs the transportation department of STV's Baltimore-based South Atlantic Region. Recent projects under his direction include the US 113 dualization in Worcester County, MD, and the High-Road Metro Station access improvements in Prince Georges County, MD. Parker joined STV in 1976.

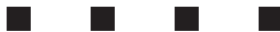
A registered civil engineer, Parker earned a Bachelor of Science in civil and geotechnical engineering from Drexel University. He is a member of the American Society of Highway Engineers and the County Engineers Association.



KCI Technologies, Inc., a Hunt Valley, MD-based engineering firm, has appointed two new outside members, Edward D. Burger, P.E., and Mary Chambers Hopewell, to its Board of Directors.

Until his retirement in June 2000, Burger served as a senior vice president at Whiting-Turner, where he led one of the company's four operating divisions and oversaw offices in Atlanta, GA; Bethesda, MD; and Richmond, VA. Burger managed many high-profile construction projects during his 45-years with Whiting-Turner, including the Baltimore Convention Center; Joseph Meyerhoff Symphony Hall, Baltimore, MD; and the Olympic Aquatic Center at Georgia Institute of Technology, Atlanta GA. He is a graduate of The Johns Hopkins University and has taught at Hopkins' Evening College.

Hopewell is the director of Health and Human Services Sector of Titan AverStar, located in Vienna, VA, and brings more than 27 years of experience to KCI. Her business unit provides information technology services for more than \$10 million in healthcare and health research projects with State and Federal governments. Hopewell earned her bachelor and master of arts degrees at the University of Iowa.



Geo-Technology Associates, Inc. (GTA), a geotechnical and environmental engineering consulting firm providing professional services throughout the mid-Atlantic region, is pleased to announce the promotion of Todd M. Stephens, P.E. and Christopher M. Reith, P.E. to Principal.

Todd M. Stephens, P.E. serves as the Chief Engineer in the GTA's Abingdon office and is responsible for managing a diverse mix of

geotechnical engineering projects. His credentials include a Master of Science in Civil Engineering from University of Maryland and a Bachelor of Science in Civil Engineering from Valparaiso University, in Indiana. Todd is a registered Professional Engineer in Maryland, Delaware, Pennsylvania, New Jersey and New York. Some of Mr. Stephens' current projects include: FedEx Ground Distribution Center and The Centre at Golden Ring, in Baltimore County; and Lakeside Business Center, Riverside Distribution Center - Lot 3, and Wagner's Farm Subdivision, in Harford County, Maryland.

Christopher M. Reith, P.E. started with GTA in May of 2000, and currently manages the firm's Wilmington, Delaware office. Mr. Reith earned his Master of Science in Civil Engineering and Bachelor of Science in Civil Engineering from the University of Delaware. Chris has more than 12 years of field, engineering, project management and administrative experience on hundreds of geotechnical and environmental engineering projects. Chris is a registered Professional Engineer in Delaware, Pennsylvania and New Jersey. Noteworthy projects Mr. Reith is working on include: several large residential subdivisions in Delaware, Pennsylvania and New Jersey; a 50-foot high embankment dam in York County, Pennsylvania; a 45-foot high paper mill sludge lagoon in Montgomery County, Pennsylvania; and several other local commercial projects.



The Consulting Engineers Council of Maryland (CEC/MD) honored Paul S. Samuel, associate editor of *The Daily Record*, during the organization's annual Engineering Excellence Awards Banquet at the Engineers Club, located at 11 West Mount Vernon Place in Baltimore. In presenting its inaugural Excellence in Journalism Award, CEC/MD recognized Samuel for his contributions to the engineering profession and to the public through his reporting and editing of news stories that increase public awareness about the value of engineers and engineering in the community.

According to CEC/MD President Carl E. Canatella, P.E. "The annual award honors the reporters and editors who bring a voice to the sometimes silent profession of engineering. Whether driving down a highway, crossing a bridge, turning a faucet, or talking on a cell phone, everyone - in some way or another - benefits from the work of engineers. Still, many people have a hard time understanding how engineers, planners, scientists and construction managers work together to design successful projects. Journalists help us get out the word."

Samuel has served with *The Daily Record* newspaper since 1984, earning a strong reputation for his accurate, in-depth reporting of breaking news in the areas of real estate and construction. In covering the engineering community, Samuel has increased public awareness about contract awards and notable designs, as well as the complexities of nurturing public and political support for engineering projects.

Before joining *The Daily Record*, Samuel worked as a reporter for the *Baltimore Evening Sun*, where he covered city and state government and urban affairs. He left the paper to serve as press secretary for Baltimore Mayor William Donald Schaefer, from 1973-78; and for Senator Paul S. Sarbanes (D-MD), 1978-80.

Samuel is a native of New York City and has lived in Baltimore since 1967. He earned a bachelor of arts in English from Grinnell College, Grinnell, IA, in 1962 and a master of science in journalism from Northwestern University, Evanston, IL, in 1963. In 1972, Samuel completed a fellowship in urban journalism at the University of Chicago.



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DATED MATERIAL INSIDE

– MEETING NOTICE – AMERICAN SOCIETY OF CIVIL ENGINEERS

Date: March 14, 2001
Time: 6:00 P.M. — Social Hour
 7:00 P.M. — Dinner
 8:00 P.M. — Meeting
Place: Engineering Society of Baltimore
 11 W. Mount Vernon Place
Speaker: Richard J. Carroll Memorial Lectureship
 Professor Surendra P. Shah
 Northwestern University

Abstract: Ultra High Performance Concrete – Concrete is one of the most widely used materials on the planet. In one form or another concrete has been used for centuries. Recent developments are producing fundamental changes in this ancient material. It is now possible to create concrete 25 times as strong as the widely used construction material. Concrete can be fabricated without vibration. Today concrete can be as ductile as steel and it can even be extruded like polymers.

Come join us while Professor Shah discusses these developments and the potential commercial and field applicability as well as limitation of High performance concrete.

Member	\$27.00
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Guests:	\$35.00
Non-Members:	\$35.00
Non-Dues Paying Members (MD Section):	\$35.00
Students:	\$14.00

Reservations: _____ (Total Members & Guests)

- Reservations will be considered firm and billed unless cancelled by not later than Monday noon prior to meeting.
- Cancellations must be submitted via mail or fax.
- Reservations can only be held until 6:45 p.m.
- Seats will be available for dinner after 6:45 on a first-come first-serve basis.
- If you are unable to attend dinner, you are welcome to attend the meeting at 8:00 p.m.
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- All reservations and cancellations should be sent to:

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email: stephanie@esb.org

Attention: Ms. Stephanie Hill

Name: _____ Phone: _____

Guests: _____

Mail, fax or email by: March 12, 2001, 12:00 noon

FUTURE MEETING DATES:

April 11, 2001

May 9, 2001